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140 Optical Fiber Sensors and Applications

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145 NAPIS-Navy positioning and Identification System

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149 Development of tools to integrate road traffic microsimulation models with emissions and air quality models

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153 An Integrated Life Cycle Analysis of microalgae cultivation for biodiesel production with water from Aveiro lagoon

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154 Multilane roundabouts: impacts on road traffic and vehicle emissions

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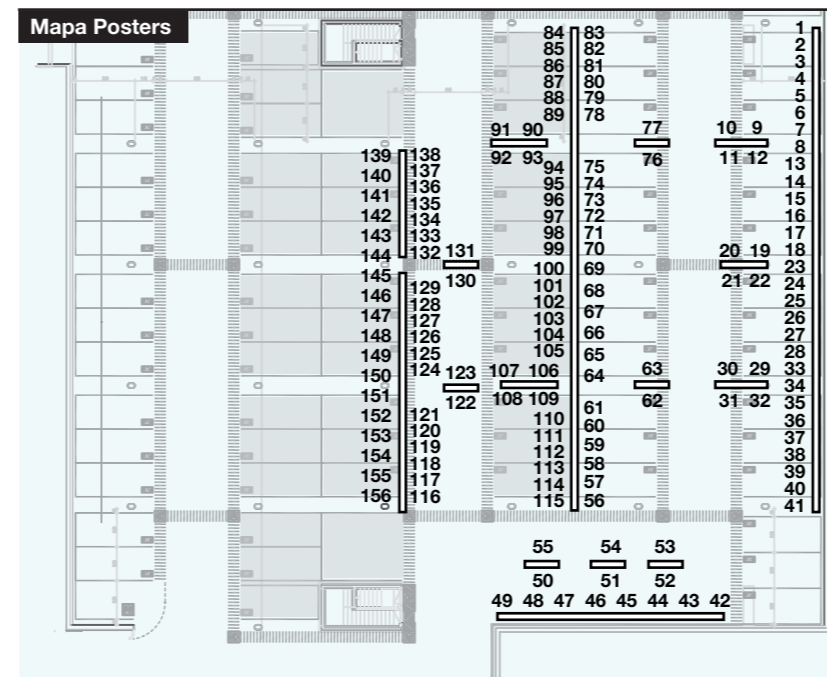
155 Graphene oxide: a world of opportunities

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156 Element Free Galerkin mixed formulations to alleviate volumetric locking

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Programme

09:00-09:15 - Opening**09:15-09:45** - Keynote talk: **Mário Almeida Santos (OGMA)****09:45-11:00****IEETA:** Privacy-preserving vehicle identification with RFID tags, André Zúquete**CLC:** Charles Dickens and Modernity, Anthony Barker**I3N-FSCOSD:** Physical properties and applications of silicon nanoparticles, Rui Pereira**CIDMA:** Inversion of the noisy Radon transform in SO(3) via Gabor frames and principles of sparse recovery, Uwe Kähler**GOVCOPP:** Economically Sustainable DEMOgraphy - ReverSing Decline in Peripheral Regions, Eduardo Anselmo de Castro**11:00-11:30** - Posters + coffee break**11:30-13:00** - Posters**13:00-14:30** - Lunch**14:30:15:15** - Keynote talk: **Roland Y. Siegwart (ETH)****15:15-16:30****CICECO:** Electron microscopes in the 21st century: beyond imaging, Pedro Joaquim da Costa**GEObIOTEC:** Methylene blue and Orange II removal by kaolin and metakaolin: absorption and --photocatalytic activity, Slavka Andrejkovicová**CIDTFF:** Experiment based science teaching in Basic Education: evaluation of the impact of a national teacher education programme, Patrícia Sá**IT:** Engineering Quantum Communication Systems, Armando Pinto
CESAM: LAGOONS - Integrated water resources and coastal zone management in European lagoons in the context of climate change, Ana Isabel Lillebø**16:30-17:30** - Posters + coffee break**17:30-18:00** - Closing + winning posters

research day

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INET-MD

- Topologies of Sound: towards a more-than-human account?** Iain Foreman
- Proposal to adapt the A.: 418 to the interpretative construction of the violin part of Beethoven’s “Kreutzer” sonata, Op. 47** Marta Eufrázio
- The female voice of the north Portuguese folk singing** André Araújo, Filipa Lã, Johan Sundberg
- The Influence of gesture in percussion performance: a performativity approach from preliminary results of a sensory experience** Fernando Chaib
- Politics, resistance and post-colonialism in the construction of the musical universe of Portuguese “cantautores”** Pedro Almeida
- Tacit and explicit somatic knowledge: reviewing Alexander Technique on the pretext of preparing to take up the flute to play the first note** Pedro Couto Soares
- Music’s in between: spreading “new” music through an “old fashion” way** Rui Marques

GOVCOPP

- Coping with the efficiency/equity trade-off in the provision of Services of General Interest: the added value of Territorial Cohesion** Gonçalo Santinha, Eduardo Anselmo Castro, Teresa Sá Marques
- Is the party over? Patronage and party government in Portugal** Patrícia Silva, Carlos Jalali
- Contribution-based Management. An integrative and assertive model to Organizational Strategy** Eloi Sartori, António Carrizo Moreira, Joaquim Borges Gouveia
- A Governance Approach to Integrated Rural Tourism: Factors Influencing Organisational Performance and Tourism Support of Local Development Organisations** Emese Panyik, Carlos Costa
- Product mix strategy and manufacturing flexibility** Rui Miguel da Costa Fernandes, Borges Gouveia, Carlos Pinho
- The Perceived Importance of Public Support for Outward Foreign Direct Investment** Miguel Augusto R. Matos Torres, Celeste Amorim Varum

CiDTFF

- From policies to practices: working with teachers, giving steps to plurilingualism** Ana Sofia Pinho, Gillian Moreira
- Characterization of Natural Sciences blogs: how are teachers exploiting this web 2.0 tool** Maria João Almeida, Teresa Bettencourt e Luis Marques
- Critical cultural awareness in a virtual learning community of languages** Mário Cruz; Maria Helena Araújo e Sá e António Moreira
- Textbooks and the development of transversal reading competences in mother tongue** Esperança Martins, Cristina Manuela Sá
- English picturebook illustrations and language development in early years education** Sandra Mourão, Ana Isabel Andrade e Eduarda COQUET
- Teachers’ professional development within the school context: ways towards plurilingual education** Lurdes Gonçalves, Ana Isabel Andrade

- Curucucu©: storytelling support for 8 to 10 years-old children** Ana Carla Amaro, António Moreira e Luísa Alvares Pereira
- The potential of social networks for the teachers’ professional growth** Isabel Barbosa, Lúcia Pombo & António Moreira
- PmatE and the development of mathematical skills in higher education** Sónia Pais, Isabel Cabrita, António Batel Anjo
- Energizate – a courseware to promote STS oriented practices in primary school** Ana Cristina Torres, Rui M. Vieira
- Teaching and Learning Science by Questioning and ICT Integration** Leonel Rocha, Francislê Neri e Teresa Bettencourt
- Social networking and teachers’ professional development - Interactic 2.0 case study** Paula Antunes, António Moreira e Lúcia Pombo
- Blogs and portfolios: contributions to the learning of science in high-school** Cláudia Cerca Carvalheiro, Teresa Bettencourt
- Assessment of teacher performance and the titular teacher: a case study within an organizational perspective** Ana Cristina Salgueiro, Jorge Adelino Costa
- Assessment of breast cancer coping of Portuguese women** Ana Torres, Anabela Pereira e Sara Monteiro
- Developing scientific literacy in pupils with special needs: conception, implementation and evaluation of a project in partnership** Dulce Ferreira, Nilza Costa e Paulo Trincão
- Quality of teaching in Higher Education: how disciplinary collaboration in Science courses improves it?** Cristina Oliveira, Nilza Costa e Francislê Neride Souza

CIPES

- Quality Assurance in Portuguese Higher Education Institutions** Maria João Manatos
- Students Success e Institutional Quality: Contributing to the Strategic Management of Higher Educations Institutions** Maria José Sá
- Organizational Adaptations of Portuguese Universities to Diversifying Funding** Tatyana Yuryevna Korryakina Antunes
- Changes in Government and Management of Portuguese Higher Education Institutions** Sofia Bruckmann
- Changes in Higher Education Institutions’ Governance and Management: Comparing Portugal and Finland** Sara Diogo

ID+

- Design management and innovation: key factors for economic development of Portuguese SMEs** António José de Jesus Gomes
- Dialogues with handicrafts: broadening the sense of Genius Loci through Design** Cláudia Regina da Silva Gaspar de Melo
- Dealing with Fragmented Information in Architectural Design Process** Pirjo Annikki Haikola
- Comunication Design of Educational Concerts** Sara Daniela Bento Botelho da Silva
- Designing out Stigma** Renato Jorge Costa Lopes Bispo
- Repurposing Existent Materials: A Sustainable** Ricardo Jorge da Rocha Gonçalves

CETAC.MEDIA

- Scientific Information Integration & Discovery Service** Filipe Bento, Lídia Silva
- Iterative brand design process through social branding centers** Catarina Lélis, Óscar Mealha
- Universal Design in iTV: development of an IPTV audio description service** Rita Oliveira, Jorge Ferraz de Abreu, Margarida Almeida
- Interactive Artistic Environments Inclusion through Art** Kátia Sá, Margarida Almeida, António Moreira
- Representation, privacy and reputation - building identity in a digital learning environment** Mónica Aresta, Luis Pedro, António Moreira
- Participatory Design of an Online Community for Vector Drawing** Pedro Amado, Ana Veloso
- A Communication Framework for Learning Objects Systems** Lúcia Moreira, Fernando Ramos
- Participation through mobile technologies to support information and communication in museums visits** Pedro Beça, Rui Raposo

CLC

- Inclusive communication strategies for accessible museums** Josélia Maria dos Santos José Neves; Maria Teresa Roberto; Jorge Diaz Cintas
- Bento Pereira’s Prosodia: a reference of ancient lexicographical heritage** Helena Freire Cameron; Telmo Verdelho
- Description and analysis of the translators’ cognitive processes and its influence on the translation task** Katty da Silva Ferreira; Teresa Alegre
- Martial: a glance of the writer behind the textual author and of the man beyond the artist** Joana Mestre Costa; João Nunes Torrão
- Social representations and power dynamics in gender relations. A study based on Ílhavo’s newspapers from the 1950s and 1960s** Sara Vidal; Maria Manuel Baptista; Moisés Martins
- Dioscorides and the Portuguese Humanism: Amato Lusitano’s Commentaries** Ana Margarida Borges; António Andrade

CICECO

- Green solvents in nanoparticle synthesis: can vegetable oils be an answer?** Angela S. Pereira
- Playing LEGO with cysteine proteases in the search for better antimalarials** Cátia Teixeira
- NMR Crystallography: chemical shift driven - crystal structure determination of hydrated pharmaceuticals** Sérgio M. Santos
- Novel aurivillius oxide thin films for ferroelectric applications** Venkata Saravanan
- Multifunctional ceria-based composite electrolytes for intermediate temperature fuel cells and CO2 capture applications** Sónia Gonçalves Patrício
- Active corrosion protection via LDH containers** Joao Tedim
- New polyesters from 2,5-furandicarboxylic acid** Paula Andreia Sousa
- Ionic liquid based ABS for the analysis of Bisphenol A in body fluids** Mara G. Freire

- New copper(I/II) complexes: synthesis, crystal structure and cytotoxic properties** Bárbara Joana Martins Leite Ferreira
- Development of drug like molecules towards the treatment of human diseases associated with malfunctioning ion channels: a systematic theoretical investigation** Paulo Costa
- Zirconia nanoparticles by non-aqueous sol-gel chemistry: self-assembly and optical properties** Valentina Rebuttini
- Oxygen nonstoichiometry and transport properties of Ln0.5A0.5FeO3-d (Ln = La-Sm, A = Sr, Ba): effects of cation size** Vladislav V. Kolotygin
- Proliferation of osteoblast cells upon electrical stimulation on conductive carbon nanotube-based bone grafts** Diogo Mata

GEOBIOTEC

- DVINE – The Douro vineyards, World Heritage Patrimony: Assessing the impact of an ancient activity in the quality of sediment and water in the Douro** C. Patinha^{*}, A.P. Reis¹, E. Ferreira da Silva¹, A. Cachada², A.J. Sousa³, D. Terroso¹, F. Rocha¹, J. Vidinha¹, M. Almeida², C. Sequeira¹, P. Martins², R. Fonseca⁴
- Structural and mechanical properties of metakaolin and red mud based geopolymers** W. Hajjaji^{1,2}, S. Andrejkovi-ová¹, M. Alshaaer³, J. A. Labrincha², F. Rocha¹
- Certification and quality criteria of peloids in use for therapeutic purposes** A. Quintela, D. Terroso, E. Ferreira da Silva & F. Rocha
- Pulmonary and oral bioaccessibility of arsenic in dust from Beduido-Estarreja, to estimate exposure through inhalation and ingestion and risk to human health** A.P.Reis¹, C. Patinha¹, A.C. Dias¹, S. Costa², S. Bartolomeu³, J. Amaral⁴, J. Wragg⁵, M. Cave⁶, F. Rocha¹
- Sr isotopic signatures of Portuguese bottled mineral waters, their relationships with the geological setting and potential use for product authentication** Sara Ribeiro, Maria do Rosário Azevedo, José Francisco Santos and Jorge Medina
- North American provenance of ice-rafted debris deposited in the Galician continental slope suggested by Nd isotope composition of sediments** Virginia Martins, José Francisco Santos, Sara Ribeiro, Ana Sofia Soares and Fernando Rocha

QOPNA

- Asymmetric organocatalysis: Tackling structural and stereochemical complexity** Eduarda M. P. Silva, Artur M. S. Silva, José A. S. Cavaleiro
- Replacement of the Sulphur Dioxide in winemaking by Chitosan-based Films** Cláudia Nunes; Ângela Cunha; Élia Maricato; Sónia Mendo; José A. Lopes da Silva; Manuel A. Coimbra
- Mass spectrometry characterization of the non-enzymatic glycation products of human serum transferrin** André M. N. Silva, Paulo R. H. Sousa, Pedro Domingues
- Transformation of flavones into new oxygen heterocyclic derivatives with potential pharmacological applications** Djenisa H. A. Rocha, Diana C. G. A. Pinto, Artur M. S. Silva, José A. S. Cavaleiro
- New porphyrinic derivatives: synthesis and applications** Nuno M. M. Moura, Maria A. F. Faustino, Maria G. P. M. S. Neves, Augusto C. Tomé, Artur M. S. Silva, José A. S. Cavaleiro
- Recent advances in the chemistry of pyrazoles: towards novel biologically active compounds** Joana P.A. Ferreira, Vera L. M. Silva, Artur M. S. Silva and José A. S. Cavaleiro

- Synthesis of Porphyrins and Analogues for Photomedicinal and Environmental Applications** Flávio Figueira, Clara Gomes, Dora Costa, Joao Rodrigues, Sandrina Silva, Patrícia Pereira, Andreia Farinha, José Cavaleiro, João Tomé
- Detection of Microorganisms in Food Products by Infrared Spectroscopy** Ana Catarina Fernandes, António Barros, Adelaide Almeida, Ivonne Delgadillo
- The role of mitochondrial Protein Quality Control in bladder cancer-related muscle wasting** Ana I. Padrão¹, Paula A. Oliveira², Rui Vitorino¹, Marcela Márquez³, Catarina Teixeira^{1,2}, Daniel Moreira-Gonçalves⁴, José A. Duarte⁴, Lúcio L. Santos⁵, Rita Ferreira¹, Francisco Amado¹

CESAM

- Influence of upwelling events along the coast of the Iberian Peninsula** Ines Alvarez, João Miguel Dias, Moncho Gomez-Gesteira, Maite de Castro, Ana Picado
- Cutting-edge research on the assessment of risks posed by soil contamination to human health** Sónia M. Rodrigues, N. Cruz, C. Coelho, A. Duarte, E. Pereira, P.F.A.M. Römkens
- Organotin compounds in the environment: from snail to humans** Ana C.A. Sousa; M. Ramiro Pastorinho; Filipe Laranjeiro; Isabel B. Oliveira; Susana Galante-Oliveira; Carlos M. Barroso; António J.A. Nogueira
- CLIPE - Climate change of precipitation extreme episodes in the Iberian Peninsula and its forcing mechanisms** Paulo de Melo-Gonçalves
- Modelling runoff generation in two contrasting long-unburnt forested catchments in the headwaters of the Rio Vouga** ME Riall-Rivas, JP Nunes, JM Santos, L. Bernard-Janin, AK Boulet, COA Coelho, AJD Ferreira and JJ Keizer
- Conservation of cetaceans, marine turtles and seabirds in Portugal: contribution of the MARPRO and ECOMARE projects** Catarina Eira, José Vingada, Jorge Santos, Helder Araújo, Josep Alonso, Maria Llarena, Ana Lúcia Silva, Ana Marçalo, Lídia Nicolau, Angela LLavona, Alfredo López, Amadeu Soares

- The role of roe deer (Capreolus capreolus) reintroduction in ecosystem restoration** Rita Tinoco Torres, Tamira Cruz, Bruno Oliveira, João Carvalho, João Santos and Carlos Fonseca
- Antibiotic resistance as emerging pollutant: risks for public health & the environment** Isabel Henriques, Marta Tacão, Alexandra Moura, António Correia
- Solar-powered sea slugs: how can chloroplasts remain functional inside metazoan cells?** Cruz S, Dionisio G, Calado R, Seródio J
- From the cytoeme to the genome: in vitro assays within the 3Rs perspective** Santos C, Miguel Oliveira, Ascenso A, Remedios R, M Costa, Pinto P, S Pinho, F Pinho, T. Pedrosa, H Oliveira
- Monitoring of 17b-estradiol and 17a-ethinylestradiol in water samples** Carla Patrícia Silva, Diana Lima, Valdemar Esteves
- Unveiling subterranean biodiversity: a unique unprotected heritage under the Portuguese karst** Ana Sofia Reboleira; Pedro Oromí; Fernando Gonçalves & David C. Culver
- Air quality in classrooms: urgent need for improvement** Priscilla Nascimento Pegas
- The influence of soil pH on the toxicity of ZnO nanoparticles to the isopod Porcellionides pruinosus** Paula Tourinho, Amadeu M. V. M. Soares, Kees Van Gestel, Claus Svendsen and Susana Loureiro

- Search for new lantibiotics: case study of lichenicidine** Tânia Caetano, Joana Barbosa, João Cruzeiro, Ricardo Jorge, Roderich Sussmuth and Sónia Mendo
- Genetic assessment of a species in expansion: the successful case of the Egyptian mongoose (Herpestes ichneumon) in Portugal** Tânia Barros, Philippe Gaubert, Luis Souto, António Mira, Rita G. Rocha, Victor Bandeira & Carlos Fonseca
- Regional assessment of the ecosystem services in a coastal lagoon - case study of Ria de Aveiro** L.P.Sousa, F.I.Alves,A. Lillebo, G. Gooch
- Offshore dredging operations: sediment dynamics, evolution and recovery time. A multidisciplinary approach** Daniela Gonçalves, Luis Menezes Pinheiro, Paulo A. Silva, Xavier Bertin, Luis Rebêlo, João Rosa
- Bacteriophages with potential for inactivation of fish pathogenic bacteria: survival and effect on bacterial community structure** Carla Pereira, Yolanda J. Silva, Ana L. Santos, Ângela Cunha, Newton C. M. Gomes, Adelaide Almeida
- Diversity and distribution of benthic malacofauna on the Portuguese continental shelf** R. Martins, L. Sampaio, R. Freitas, V. Quintino, A.M. Rodrigues
- Management of ashes from thermochemical conversion of biomass to energy in Portugal** David Silva, Luis Tarelho
- Molecular characterization of proteotoxic stress in zebrafish** Marisa Reverendo, Ana Soares, Manuel Santos

CIDMA

- “Singular domain perturbation problems. Remarks on a basic example”** Matteo Dalla Riva
- Local properties of 3D generalized holomorphic mappings** João Morais
- 3D Mappings by Generalized Joukowski Transformations** Carla Cruz
- Compressive sensing for non-linear Fourier atoms** Narciso Gomes
- Derivatives of Any Order in Optimal Control** Shakoor Pooseh
- Elliptic Equations with Critical Exponent** Kelly Murillo and Lirong Huang
- Bioeconomic Approach to Dengue Fever - simulations with data from the Cape Verde outbreak** Helena Sofia Rodrigues

CICECO

- Supported Photocatalytic Materials: Deposition and Behaviour** David Tobaldi
- PDMS-TEOS-CaO hybrid materials using alternative sources of calcium** José Carlos Almeida
- (Gd,Yb,Tb)PO4 Up-Conversion Nanocrystals for Bimodal Luminescence-MR Imaging** Mengjistie L. Debasu

I3N-FSCOSD

- Effect of crystallization in some tellurite glasses** Dibakar Dutta
- Nanocrystal-polymer (nSi-12T) interface study using molecular dynamics and static first-principles calculations** A. Carvalho, R.B.L. Vieira, J. Coutinho, M. Rayson, P. R. Briddon
- A simple tailor for high rate growth of nanocrystalline diamond films** C. J. Tang, A.J.S. Fernandes, J. L. Pinto